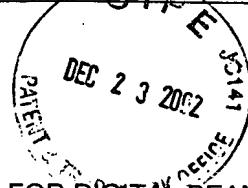


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
 DONALD C. D. CHANG, ET AL
 Serial No. 09/973,270
 Filed: October 5, 2001
 For: SAMPLING TECHNIQUE FOR DIGITAL BEAM
 FORMER



Date: December 12, 2002
 Group Art Unit: 2634
 Examiner: Lugo, David

PRELIMINARY AMENDMENT TRANSMITTAL LETTER

BOX NON-FEE AMENDMENT
 Commissioner for Patents
 Washington, D.C. 20231

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified application.

Applicant petitions for an extension of time for 1 months(s) to respond to the Office Action dated _____. If an additional extension of time is required, please consider this a petition therefor.

An extension for _____ months(s) has already been secured; the fee paid therefor of _____ is deducted from the total fee due for the total months of extension now requested. \$ _____

Extension fee due with this request \$ _____

Applicant believes that no extension of time is required to respond to the Office Action dated _____. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

No additional fee for claims is required.

The fee for claims has been calculated as shown below:

| | CLAIMS AS AMENDED | | | | |
|--|-------------------------------------|---------------------------------------|------------------|-----------|-------------------|
| | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE | ADDITIONAL FEE |
| TOTAL CLAIMS | 19 minus | 19 | 0 | \$ 18.00 | \$ 0 |
| INDEPENDENT CLAIMS | 4 minus | 4 | 0 | \$ 84.00 | \$ 0 |
| MULTIPLE DEPENDENT CLAIMS | | | + | \$ 280.00 | \$ 0 |
| TOTAL ADDITIONAL FEE FOR THIS AMENDMENT: | | | | | \$ 0 |

Charge \$0 to Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California. Please charge any additional fees for claims or credit overpayment to Deposit Account No. 50-0383. If any additional extension fee is required, please charge to Deposit Account No. 50-0383. This form is submitted in triplicate.

Respectfully submitted,

Vijayalakshmi D. Duraiswamy
 Vijayalakshmi D. Duraiswamy
 Registration No. 31,505

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to BOX NON-FEE AMENDMENT, Commissioner for Patents, Washington, DC 20231 on December 12, 2002.

HUGHES ELECTRONICS CORPORATION
 200 No. Sepulveda Blvd.
 P. O. Box 956, ES/001/A109.
 El Segundo, CA 90245
 Telephone: (310) 662-9919

Vijayalakshmi D. Duraiswamy
 Vijayalakshmi D. Duraiswamy

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CERTIFICATION PURSUANT TO 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231, on December 12, 2002. (date of deposit)

V.D.DURAIWAMY

(Name of Applicant, Assignee or Registered Representative)

V. D. Duraiwamy

(Signature)

December 12, 2002

(Date of Signature)

Customer No. 020991

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Technology Center 2600

Patent

Docket No. PD-89418A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of

Donald C. D. Chang, et al

Serial No. 09/973,270

Filed: 10/05/2001

For: SAMPLING TECHNIQUE FOR DIGITAL BEAM FORMER

Date: December 12, 2002

Group Art Unit: 2634

Examiner: Lugo, David

#4/A
L. M. Kaufman
1.13.02

PRELIMINARY AMENDMENT

Box Non-Fee Amendment
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the specification as follows:

IN THE SPECIFICATION:

Please delete the existing Paragraph 13 and substitute therefor the following replacement paragraph:

--[0013] Therefore, a mobile satellite payload having a minimal number of components, which can convert analog signals in frequency bands up to C-band to digital signals, is possible due to the stated method advantages. The present invention itself, together with further objects and attendant advantages, will be best understood by reference to the following detailed description, taken in conjunction with the accompanying drawings.--